

Message Text

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ORIGIN OES-07

INFO OCT-01 AF-10 ARA-10 EUR-12 EA-07 NEA-10 ISO-00
NRC-05 FEA-01 ERDA-05 AID-05 CEA-01 COME-00 EB-08
FPC-01 H-01 INR-07 INT-05 L-03 NSC-05 OMB-01
PM-05 SP-02 SS-15 STR-04 TRSE-00 ACDA-07 INRE-00
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DRAFTED BY OES/NET/RD:RSIMPKINS/JBORIGHT:BJE
APPROVED BY OES/NET/RD:LVNOSENZO
S/AS:PFARLEY
ACDA:RROCHLIN
ERDA HBENGELSDORF(SUBS)
EUR/RPE:WSALISBURY(SUBS)
T:JNYE
NEA:SZWEIFEL
DESIRED DISTRIBUTION
M:GOPLINGER, NSC:JTUCHMAN
PM:GOPLINGE, NSC:JTUCHMAN

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TO AMEMBASSY BRUSSELS IMMEDIATE
AMEMBASSY THE HAGUE IMMEDIATE
AMEMBASSY STOCKHOLM IMMEDIATE
AMEMBASSY CANBERRA IMMEDIATE
AMEMBASSY HELSINKI IMMEDIATE
AMEMBASSY MANILA IMMEDIATE
AMEMBASSY SEOUL IMMEDIATE
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AMEMBASSY LUXEMBOURG IMMEDIATE
AMEMBASSY DUBLIN IMMEDIATE
AMEMBASSY COPENHAGEN IMMEDIATE
AMEMBASSY VIENNA IMMEDIATE
AMEMBASSY MOSCOW IMMEDIATE
AMEMBASSY TEHRAN IMMEDIATE
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AMEMBASSY ISLAMABAD IMMEDIATE
AMEMBASSY BUCHAREST IMMEDIATE
AMEMBASSY NEW DELHI IMMEDIATE
AMEMBASSY MADRID IMMEDIATE
AMEMBASSY BELGRADE IMMEDIATE
AMEMBASSY WARSAW IMMEDIATE
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INFO AMEMBASSY LONDON IMMEDIATE
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C O N F I D E N T I A L STATE 184505

USEEC ALSO FOR EMBASSY, VIENNA FOR EMBASSY AND USIAEA

E.O. 11652: GDS

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TAGS: TECH, PFOR, ENRG, MNUC, PARM

SUBJECT: INTERNATIONAL NUCLEAR FUEL CYCLE EVALUATION
(INFCE)
OECD ALSO FOR EMBASSY, OECD FOR IEA AND NEA SECRETARIAT
REF: (A) PARIS 17415 (B) STATE 122509

1. BASED ON DISCUSSIONS TO DATE WITH INTERESTED COUNTRIES,
WE ARE MOVING FORWARD WITH PLANNING OF INFCE. WE BELIEVE
TIMING NOW APPROPRIATE FOR ANOTHER APPROACH TO ADDRESSEE
HOSTS TO CONVEY LATEST U.S. THINKING AND SOLICIT COMMENTS
OR OTHER INPUTS.

2. IN APPROACHING HOST OFFICIALS, YOU SHOULD HAND OVER TEXT
OF PARAS 3 AND 4 BELOW, AND USE THE FOLLOWING TALKING
POINTS:

-- WE ARE ENCOURAGED BY INTERNATIONAL RESPONSE TO THE
INFCE PROPOSAL WE HAVE MADE. AN OPEN INTERNATIONAL EXAMI-
NATION OF FUEL CYCLE TECHNICAL, SAFEGUARDS, AND INSTITU-
TIONAL QUESTIONS HAS BEEN WIDELY WELCOMED, FOR EXAMPLE, IN
STATEMENTS AT THE IAEA;

-- IN THE CASE OF SOME 20 COUNTRIES, WE HAVE RECEIVED
RESPONSES AMOUNTING TO AN INDICATION OF INTENTION TO

PARTICIPATE, AND SEVERAL OTHERS HAVE SHOWN INTEREST;

-- THESE TERMS OF REFERENCE REFLECT COMMENTS WE HAVE RECEIVED TO DATE, AND WE ARE PLEASED BY GENERALLY COMMON VIEW INDICATED BY THOSE COMMENTS;

-- WE WOULD BE INTERESTED IN RECEIVING AS SOON AS PRACTICABLE FURTHER COMMENTS OR INPUTS ON THE TERMS OF REFERENCE FROM HOST GOVERNMENTS;

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-- POSSIBLE LEAD PARTICIPANTS AND ORGANIZATION OF THE WORK ARE NOW BEING CONSIDERED. WE WOULD LIKE TO KNOW WHAT AREAS ARE OF PARTICULAR INTEREST AND WHAT ROLE HOST MIGHT BE INTERESTED IN PLAYING IN THESE AREAS. (IN MAKING THIS POINT, ADDRESSEES SHOULD TAKE INTO ACCOUNT ANY RESPONSES RECEIVED TO EARLIER APPROACHES.);

-- WE ENVISAGE A CONFERENCE OF INTERESTED STATES AND INTERNATIONAL ORGANIZATIONS IN THE EARLY FALL, PERHAPS MID-OCTOBER, TO GET THE PROGRAM UNDERWAY. FYI. WE HOPE TO SEND OUT INVITATIONS SHORTLY TO SUCH A CONFERENCE IN WASHINGTON. END FYI.

3. PROPOSED INTERNATIONAL NUCLEAR FUEL CYCLE EVALUATION

TECHNICAL AND ECONOMIC SCOPE (1)

1) FUEL AND HEAVY WATER AVAILABILITY

A) ESTIMATED NEEDS FOR NUCLEAR ENERGY, AND CORRELATED NEEDS FOR URANIUM, ACCORDING TO DIFFERENT FUEL CYCLE STRATEGIES

B) URANIUM AVAILABILITY

-- ASSESSMENT OF RESOURCES AND PRODUCTION CAPACITIES;

-- POLICIES AND INCENTIVES FOR ENCOURAGING EXPLORATION AND PRODUCTION INCLUDING JOINT VENTURES;

-- MARKETING POLICIES AND/OR GUARANTEES OF SALES FOR COMPANIES INVESTING IN EXPLORATION AND PRODUCTION;

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-- MARKETING POLICIES AND/OR GUARANTEES OF SUPPLY FOR UTILITIES;

-- TECHNICAL DEVELOPMENT OF EXPLORATION AND MINING

METHODS

C) HEAVY WATER AVAILABILITY

D) THORIUM AVAILABILITY

2) ENRICHMENT AVAILABILITY

A) ENRICHMENT NEEDS AND AVAILABILITY ACCORDING TO
VARIOUS FUEL CYCLE STRATEGIES:

- JOINT PLANNING OF FUTURE CAPACITIES;
- OPPORTUNITIES FOR CROSS-INVESTMENT;
- FREEDOM OF CHOICE FOR CUSTOMERS IN AN OPEN MARKET.

B) COMPARISON OF THE PROLIFERATION RISKS OF THE VARIOUS
ENRICHMENT TECHNIQUES

3) ASSURANCES FOR LONG-TERM SUPPLY IN THE INTEREST OF
NON-PROLIFERATION

- INCENTIVES FOR LONG-TERM COMMERCIAL CONTRACTS BETWEEN
PRODUCERS AND CONSUMERS;
- GUARANTEES OF ASSURED SUPPLY AND RELATIONSHIP TO
FUTURE NATIONAL EXPORT AND NON-PROLIFERATION POLICIES;
- MULTINATIONAL OR INTERNATIONAL MECHANISMS GUARANTEEING
SUPPLIES IN CASE OF UNEXPECTED CUTTING OFF OF SUPPLIES.

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4) REPROCESSING, SEPARATED PLUTONIUM, RECYCLE

A) REPROCESSING

- STUDY OF THE ECONOMIC ENVIRONMENTAL AND ENERGY AS-
PECTS OF REPROCESSING ON A FULL INDUSTRIAL SCALE;
- IMPROVEMENT OF SAFEGUARDS TECHNIQUES;
- REGIONAL FUEL CYCLE CENTERS;
- ALTERNATIVE REPROCESSING METHODS INCLUDING COPROCESS-
ING, SPIKING OR DELIVERY OF PLUTONIUM IN THE FORM OF MIXED
OXIDE OR EVEN FUEL ELEMENTS, POSSIBLY PREIRRADIATED;
- WASTE MANAGEMENT.

B) SEPARATED PLUTONIUM

-- CONDITIONS AND POSSIBLE RESTRICTIONS FOR STORAGE,
TRANSPORT AND USE OF HIGHLY-CONCENTRATED PLUTONIUM;

-- INTERNATIONAL CONTROL OF SEPARATED PLUTONIUM IN-
CLUDING STORAGE UNDER THE AUSPICES OF IAEA AND RELEASE
CRITERIA PROBLEMS.

C) RECYCLE IN THERMAL REACTORS

-- STUDY OF THE ECONOMIC ENVIRONMENTAL AND ENERGY AS-
PECTS OF THE CONCEPT ON AN INDUSTRIAL SCALE;

-- SAFEGUARDS PROBLEMS SPECIFIC TO RECYCLING;

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-- POSSIBLE URANIUM-ONLY RECYCLE.

5) FAST BREEDERS

-- STUDY OF THE ECONOMIC ENVIRONMENTAL AND ENERGY
ASPECTS OF THE CONCEPT ON AN INDUSTRIAL SCALE;

-- SAFEGUARDS;

-- REPROCESSING MODES (SAME SUBTITLES AS FOR
CHAPTER 4A ABOVE).

6) SPENT FUEL STORAGE AND DISPOSAL FOR PRESENT THERMAL REACTORS

A) STORAGE STRATEGIES AND COSTS

-- FOR LIGHT-WATER REACTORS;

-- FOR HEAVY-WATER REACTORS;

-- FOR GAS-COOLED REACTORS.

B) SHORT-TERM/INTERMEDIATE STORAGE

-- WAYS OF INCREASING SPENT FUEL STORAGE;

-- SITING AND TRANSPORTATION PROBLEMS;

-- MORE EFFICIENT UTILIZATION OF EXISTING SPENT FUEL
CAPACITY;

-- ENVIRONMENT SAFEGUARDS AND SAFETY ASPECTS INCLUDING
FUEL INTEGRITY PROBLEMS AND ASSOCIATED RISKS;

-- COSTS;
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-- LEGAL CONSTRAINTS.

C) SPENT FUEL REPOSITORIES (PERMANENT OR RETRIEVABLE)

-- SITING PROBLEMS INCLUDING INTERNATIONAL REPOSITORIES;

-- POSSIBILITIES OR RISKS OF FURTHER RECOVERY;

-- ENVIRONMENTAL AND SAFETY ASPECTS INCLUDING FUEL
INTEGRITY PROBLEMS AND ASSOCIATED RISKS AND PROTECTIONS
AGAINST POSSIBLE DISSEMINATION OF FISSION PRODUCTS;

-- COSTS;

-- LEGAL CONSTRAINTS.

7) ONCE-THROUGH FUEL UTILIZATION FOR PRESENT THERMAL
REACTORS - -

A) METHODS TO INCREASE ONCE-THROUGH FUEL UTILIZATION

-- OPTIMIZED FUEL AND LOADING DESIGNS;

-- TANDEM CYCLE;

-- SPECTRAL SHIFT.

B) ENERGY BALANCE AND ECONOMIC SAFEGUARDING AND
ENVIRONMENTAL ASPECTS OF ONCE-THROUGH UTILIZATION

-- FOR LIGHT-WATER REACTORS;

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-- FOR HEAVY-WATER REACTORS;

-- GAS-COOLED REACTORS.

8) OTHER REACTORS AND FUEL CYCLE CONCEPTS

A) PRODUCTION UTILIZATION AND SAFEGUARDS OF HIGHLY-
ENRICHED URANIUM FOR POWER REACTORS

B) RESEARCH REACTORS: USE OF HIGHLY-ENRICHED URANIUM
AND POSSIBLE ALTERNATIVES

C) THORIUM-U-233 CYCLE

D) LIGHT-WATER AND THORIUM BREEDER CONCEPTS

E) HIGH TEMPERATURE REACTORS

F) OTHER ADVANCED REACTOR CONCEPTS

WITH, WHEN RELEVANT, IN EACH CASE:

- IDENTIFICATION OF THE FUEL CYCLE STAGES AT WHICH NUCLEAR WEAPONS USABLE MATERIAL MAY BE SEPARATED, AND THE POSSIBLE MEANS OF MINIMIZING PROLIFERATION RISKS;

- ECONOMIC ENVIRONMENT AND ENEREGY ASPECTS;

- COMMERCIALIZATION LEAD-TIMES;

- SAFETY PROBLEMS.

4. ORGANIZATION

THE PROGRAM WOULD BE OPEN TO ALL COUNTRIES INTERESTED IN ITS WORK. ONE INTERNATINAL WORKING GROUP WOULD BE CREATED FOR EACH OF THE AFOREMENTIONED CHAPTERS, COMPOSED OF REPRESENTATIVES OF PARTICIPATING COUNTRIES. THE GROUPS WOULD BE CONFIDENTIAL

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TATIVES OF COUNTRIES DESIRING TO TAKE PART. ONE OF THESE COUNTRIES SHOULD BE DESIGNATED TO PROVIDE A CHAIRMAN, ASSISTED BY REPRESENTATIVES OF ONE OR MORE COUNTRIES.

IT WOULD BE UP TO EACH GROUP TO DECIDE, AFTER CONSULTATION WITH THE CHAIRMEN OF THE OTHER GROUPS, WHETHER OR NOT SUB-GROUPS WHICH WOULD REPORT TO THE GROUP, SHOULD BE CREATED.

THERE WOULD NOT BE COMMON FUNDING OF THE STUDIES, EACH PARTICIPATING COUNTRY, INCLUDING THOSE PROVIDING CHAIRMEN, BEING RESPONSIBLE FOR THE EXPENSES OF ITS OWN PARTICIPATION.

EACH GROUP OR SUB-GROUP WOULD DISTRIBUTE ITS WORK AMONG ITS MEMBERS. COOPERATIVE STUDIES BETWEEN NATIONAL ORGANIZATIONS OR INDUSTRIES OF PARTICIPATING COUNTRIES WOULD BE ORGANIZED TO THE EXTENT POSSIBLE. ANY CONTRIBUTION BY A PARTICIPATING COUNTRY WOULD BE WELCOME.

IN ORDER TO ENABLE THE VARIOUS GROUPS TO GATHER THE MOST COMPLETE AND REALISTIC INFORMATION IN THEIR RESPECTIVE FIELD, ALL PARTICIPANTS WOULD DO THEIR BEST TO FACILITATE THE EXCHANGE OF THE DATA NECESSARY FOR THE COMPLETION OF THE EVALUATION PROGRAM.

THE VARIOUS GROUPS SHOULD REPORT TO A CONFERENCE OF THE PARTICIPATING COUNTRIES WHICH WOULD MEET AT LEAST ONCE A YEAR. AS MANY STUDIES AS POSSIBLE SHOULD BE COMPLETED IN

TWO YEARS OR LESS. THESE REPORTS AND THESE STUDIES WOULD EXPRESS, AS FAR AS POSSIBLE, A UNANIMOUS POSITION BUT EACH PARTICIPANT WOULD BE ENTITLED TO INCLUDE A DISSENTING OPINION IF IT SO WISHED. A TECHNICAL COORDINATING COMMITTEE COMPOSED OF THE CHAIRMEN OF THE WORKING GROUPS AND
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REPRESENTATIVES OF COUNTRIES WHICH ASSIST THEM, AS PROVIDED IN THE FIRST PARAGRAPH, MIGHT BE CONVENED FROM TIME TO TIME TO COORDINATE THE WORK OF THE VARIOUS GROUPS.

IF THE IAEA SO AGREES, THE WORK OF THE EVALUATION COULD MAKE USE OF THE CAPABILITIES OF THIS AGENCY. THE IAEA COULD BE REPRESENTED IN ALL GROUPS AND COMMITTEES PARTICIPATING IN THE PROGRAM. THE AGENCY COULD BE ASKED, IN PARTICULAR, TO PROVIDE SECRETARIAT SERVICES. OTHER INTERNATIONAL ORGANIZATIONS COULD CONTRIBUTE AS APPROPRIATE.

5. FYI. JUNE 8-9 LONDON ECONOMIC SUMMIT CALLED FOR AN EXPERTS MEETING TO EXAMINE WAYS TO MEET NUCLEAR ENERGY NEEDS WHILE REDUCING THE THREAT OF PROLIFERATION OF NUCLEAR WEAPONS AND TO CONSIDER A TERMS OF REFERENCE FOR INFCE. TWO MEETINGS OF EXPERTS HAVE BEEN HELD IN PARIS: IN EARLY JUNE, THE TERMS OF REFERENCE AND ORGANIZATIONAL CONCEPTS FOR INFCE WERE ADDRESSED; IN LATE JULY, A "PRELIMINARY ANALYSIS" OF NUCLEAR ENERGY AND NON-PROLIFERATION POLICY WAS CONSIDERED. THE RESULT OF THE FIRST MEETING IS THE TEXT IN PARAS 3 AND 4. WHILE THE OTHER SIX SUMMIT COUNTRIES HAVE NO OBJECTION TO CIRCULATION OF THE RESULT, WE DO NOT WISH TO CHARACTERIZE IT AS AN "AGREED" TEXT. THE JULY EXPERTS MEETING ALSO RESULTED IN AN AD REFERENDUM AGREEMENT ON THE PRELIMINARY ANALYSIS. WE, THEREFORE, DO NOT AT THIS TIME WISH TO CIRCULATE ANY RESULT FROM THE JULY MEETING, OR IMPLY ONE WILL BE CIRCULATED. HOPEFULLY, IT WILL NOT BE NECESSARY TO HOLD FURTHER MEETINGS OF THE SUMMIT GROUP, OR CONTINUE THE EXISTENCE OF THE GROUP PER SE; WE WISH TO AVOID ANY PERCEPTION ON THE PART OF OTHER INFCE PARTICIPANTS THAT THERE IS A SPECIAL INNER GROUP DICTATING INFCE RESULTS. END
FYI.

6. IN VIEW OF THE FOREGOING PARA, ADDRESSEES MAY USE
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FOLLOWING ON IF-ASKED BASIS IF QUESTIONS ARE RAISED RE
PARIS EXPERTS GROUPS:

-- AS DECIDED BY THE LONDON ECONOMIC SUMMIT, EXPERTS

FROM U.S. AND THE OTHER SIX SUMMIT COUNTRIES MET TWICE IN PARIS TO REVIEW NUCLEAR ENERGY AND NON-PROLIFERATION QUESTIONS.

-- TERMS OF REFERENCE REFLECT COMMENTS MADE AT THAT TIME AS WELL AS OTHER COMMENTS RECEIVED.

-- THESE SEVEN COUNTRIES DO NOT COMPRISE ANY SPECIAL CONTINUING GROUP FOR INFCE, OR FOR OTHER PURPOSES.

-- WE HOPE ALL SEVEN WILL PARTICIPATE IN INFCE: SOME HAVE ALREADY INFORMED U.S. OF THEIR INTENTION TO PARTICIPATE.

7. FOR TEHRAN: IN DELIVERING PAPER YOU MAY WISH TO NOTE WE WILL DISCUSS INFCE WITH ETEMAD AND HIS DELEGATION HERE ON AUGUST 8.

8. FOR MOSCOW: IN MAKING APPROACH TO SOVIETS, YOU SHOULD KEEP IN MIND THEIR NON-INVOLVEMENT IN ECONOMIC SUMMIT FOLLOW-UP DISCUSSION OF INFCE. THEREFORE, TO ASSURE SOVIETS FEEL THEY ARE BEING ADEQUATELY CONSULTED, YOU SHOULD USE POINTS IN PARA 6, AND ADD THAT IN VIEW OF OUR STRONG COMMON NON-PROLIFERATION INTERESTS, AND OF ADVANCED STATUS OF THEIR NUCLEAR PROGRAM, WE ARE PARTICULARLY INTERESTED IN THEIR VIEWS AND ROLE THEY MIGHT BE INTERESTED IN PLAYING. YOU WILL ALSO WANT TO TAKE ACCOUNT OF ANY RESPONSE PER STATE 173995, OR IF USEFUL USE THIS APPROACH IN ELICITING RESPONSE.
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9. FOR OSLO, LUXEMBOURG, DUBLIN, LISBON, VIENNA, COPENHGN: ADDRESSEES DID NOT RECEIVE TEXT OF PREVIOUS PAPER. WE WISH TO INVITE THEIR PARTICIPATION AND TO PROVIDE THEM WITH PARAS 3 AND 4 ABOVE.

10. FOR NEA AND IEA; YOU WILL NOTE THERE IS MENTIO; OF INTERNATIONAL ORGANIZATIONS IN PARA 4. USG CONCEPT IS THAT APPROPRIATE IO'S WOULD PARTICIPATE IN AT LEAST SOME OF THE STUDIES.

11. FOR CAIRO; THIS IS FIRST APPROACH TO GOE. BACK-GROUND DOCUMENTS WILL BE POUCHED. MOHAMMAD SHAKER, COUNSELOR AT EGYPT EMB WHO HAS HAD PREVIOUS EXPERIENCE DEALING WITH NPT ISSUES, HEARD OF INFCE PLANS AND EXPRESSED INTEREST IN POSSIBLE GOE PARTICIPATION. BUREAU P:RCEIVES NO OBJECTIONS, ALTHOUGH DISCUSSIONS WITH GOE WOULD HAVE TO MAKE CLEAR THAT THIS PROGRAM IS INDEPENDENT OF NUCLEAR COOP-AGREEMENT STILL IN ABEYANCE. CHRISTOPHER

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<< END OF DOCUMENT >>

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